

### ABSTRACT

Disclosed is an electroluminescent device comprising a cathode, an anode, and, located there between, a light emitting layer (LEL) containing a light emitting material that contains an organometallic complex comprising Pt or Pd metal and a tridentate ( $N^{\wedge}N^{\wedge}C$ ) ligand, wherein the tridentate ( $N^{\wedge}N^{\wedge}C$ ) ligand represents a ligand that coordinates to the metal through a nitrogen donor bond, a second nitrogen donor bond, and a carbon-metal bond, in that order, wherein at least one of the nitrogen donors is part of an aromatic ring or an imine group, and wherein the Pt or Pd atom also forms a bond to an anionic ligand group L, wherein L represents alkyl, alkenyl, aryl, or a cyano carbon, or halogen, or RX, wherein X represents a substituent that forms a bond to the Pt or Pd atom and wherein X represents N, O, S, or Se, and R represents a substituent. Such a device provides useful light emissions.